BRUHATH BANGALORE MAHANAGARA PALIKE

E-MB BOOK

1st and Part Bill

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Name of Work	**Construction of CC roads and other works at Chikkasandra colony in Ward No.12, Shettyhalli Sub Division, Ward No.12-Shettyhalli**
Estimated Cost	**99.00 Lakhs**
P CODE	**P3727**
Job Code Number	**012-20-000010**
Administration Sanction Number	EE/DD/AS/170/19-20 Dated.16/11/2019
Technical Sanction Number	CE/DZ/TS/61/19-20 Dated.16/11/2019
Work Order Number	EE/DD/WO/ /19-20 Dated.18/01/2020
Name of Agency	KRIDL

Measurements Recorded on Dated.

Name of Work:	Construction of CC roads and other works at Chikkasandra colony in Ward No.12, Shettyhalli Sub Division, Ward No.12-Shettyhalli
Estimated Cost	99.00 Lakhs
Head of Account	P3727
Job Code No	012-20-000010
A.S No. & Date	EE/DD/AS/170/19-20 Dated.16/11/2019
T.S No. & Date	CE/DZ/TS/61/19-20 Dated.16/11/2019
W.O No. & Date	EE/DD/WO/ /19-20 Dated.18/01/2020
Name of Agency	KRIDL

1st and Part Bill

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20											
	Perimeter=0.60+.60+0.60=1.80, 0.45+0.45+0.60=1.50											
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	25.00	1	1	25.00	-	-	1.50	0.15	5.62	
		25.00	-	31.00	-	-	-	-	-	-	-	-	Cross Road
		31.00	-	61.00	1	1	30.00	-	-	1.50	0.15	6.75	
		61.00	-	85.00	1	1	24.00	-	-	1.50	0.15	5.40	
		85.00	-	93.50	-	-	-	-	-	-	-	-	Cross Road
		93.50	-	120.00	1	1	26.50	-	-	1.50	0.15	5.96	
		120.00	-	125.40	-	-	-	-	-	-	-	-	Cross Road
		125.40	-	155.40	1	1	30.00	-	-	1.80	0.15	8.10	
		155.40	-	172.00	1	1	16.60	-	-	1.80	0.15	4.48	
	5th Cross From W0762 to W0756-R/s	0.00	-	26.00	1	1	26.00	-	-	2.10	0.15	8.19	
		26.00	-	33.70	1	1	7.70	-	-	1.80	0.15	2.07	
		33.70	-	63.70	1	1	30.00	-	-	1.80	0.15	8.10	
		63.70	-	68.70	1	1	5.00	-	-	1.80	0.15	1.35	
		68.70	-	87.70	-	-	-	-	-	-	-	-	No Drain
		87.70	-	92.70	-	-	-	-	-	-	-	-	Cross Road
		92.70	-	111.70	1	1	19.00	-	-	1.50	0.15	4.27	
	5th Cross From W0762 to W0756-L/s	63.70	-	93.70	1	1	30.00	-	-	1.50	0.15	6.75	
		93.70	-	111.70	1	1	18.00	-	-	1.50	0.15	4.05	
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	30.00	1	1	30.00	-	-	1.80	0.15	8.10	
		30.00	-	60.00	1	1	30.00	-	-	1.80	0.15	8.10	
		60.00	-	80.70	1	1	20.70	-	-	1.80	0.15	5.58	
	Cross road (W0760) From 5th Cross to W0756- R/s	0.00	-	1.20	-	-	-	-	-	-	-	-	No Drain
		1.20		31.20	1	1	30.00	-	-	1.80	0.15	8.10	
		31.20		61.20	1	1	30.00	-	-	1.80	0.15	8.10	
		61.20		80.70	1	1	19.50	-	-	1.80	0.15	5.26	
	5th Cross (W0917) From W0762 to Deadend-L/s	0.00	-	30.00	1	1	30.00	-	-	1.80	0.15	8.10	
		30.00	-	60.00	1	1	30.00	-	-	1.80	0.15	8.10	
		60.00	-	85.00	1	1	25.00	-	-	1.80	0.15	6.75	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	30.00	1	1	30.00	-	-	1.80	0.15	8.10	

Sl. No.	Description of work	Chainage From	Chainage To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
		30.00	60.00	1	30.00	-	-	1.80	0.15	8.10	
		60.00	85.00	1	25.00	-	-	1.80	0.15	6.75	
									Total Qty/ Payable Qty	160.23	Cum

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

Measurement Continued

2 Removing B.S slab of drain and stacking.

6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	25.00	1	1	25.00	-	-	1.35	33.75
	35.00	61.00	1	1	26.00	-	-	1.35	35.10
	61.00	85.00	1	1	24.00	-	-	1.35	32.40
	93.50	120.00	1	1	26.50	-	-	1.35	35.77
	155.40	172.00	1	1	16.60	-	-	1.35	22.41
5th Cross From W0762 to W0756-R/s	0.00	26.00	1	1	26.00	-	-	1.50	39.00
	26.00	33.70	1	1	7.70	-	-	1.35	10.39
	63.70	68.70	1	1	5.00	-	-	1.35	6.75
	92.70	111.70	1	1	19.00	-	-	1.35	25.65
5th Cross From W0762 to W0756-L/s	63.70	93.70	1	1	30.00	-	-	1.35	40.50
	93.70	111.70	1	1	18.00	-	-	1.35	24.30
Cross road (W0760) From 5th Cross to W0756- L/s	0.00	30.00	1	1	30.00	-	-	1.35	40.50
	60.00	80.70	1	1	20.70	-	-	1.35	27.94
Cross road (W0760) From 5th Cross to W0756- R/s	31.20	61.20	1	1	30.00	-	-	1.35	40.50
	61.20	80.70	1	1	19.50	-	-	1.35	26.32
5th Cross (W0917) From W0762 to Deadend-L/s	8.50	25.00	1	1	16.50	-	-	1.35	22.27
	60.00	85.00	1	1	25.00	-	-	1.35	33.75
5th Cross (W0917) From W0762 to Deadend-R/s	60.00	85.00	1	1	25.00	-	-	1.35	33.75
								Total Qty. / Payable Qty	531.05 Sqm

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

Measurement Continued

3 Excavation by manual means for roads,drains & similar works in ordinaryy soil excavated surface levelled and sides neatly dressed the disposedearth to be levelled neatly after breaking of clods complete as per specifications.

E.W.E for C C Drain

6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	25.00	1	1	25.00	-	-	1.20	0.90	27.00
	25.00	31.00	-	-	-	-	-	-	-	-
	31.00	61.00	1	1	30.00	-	-	1.20	0.90	32.40
	61.00	85.00	1	1	24.00	-	-	1.20	0.90	25.92
	85.00	93.50	-	-	-	-	-	-	-	-
	93.50	120.00	1	1	26.50	-	-	1.20	0.95	30.21
	120.00	125.40	-	-	-	-	-	-	-	-
	125.40	155.40	1	1	30.00	-	-	1.20	0.85	30.60
	155.40	172.00	1	1	16.60	-	-	1.20	0.90	17.93
5th Cross From W0762 to W0756-R/s	0.00	26.00	1	1	26.00	-	-	1.50	1.00	39.00
	26.00	33.70	1	1	7.70	-	-	1.20	0.90	8.31
	33.70	63.70	1	1	30.00	-	-	1.20	0.90	32.40

Cross Road

Cross Road

Cross Road

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s		Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
		63.70	-	68.70	1	1	5.00	-	-	1.20	0.85	5.10	
		68.70	-	87.70	-	-	-	-	-	-	-	-	No Drain
		87.70	-	92.70	-	-	-	-	-	-	-	-	Cross Road
		92.70	-	111.70	1	1	19.00	-	-	1.20	0.90	20.52	
	5th Cross From W0762 to W0756-L/s	63.70	-	93.70	1	1	30.00	-	-	1.20	0.85	30.60	
		93.70	-	111.70	1	1	18.00	-	-	1.20	0.90	19.44	
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	30.00	1	1	30.00	-	-	1.20	0.90	32.40	
		30.00	-	60.00	1	1	30.00	-	-	1.20	0.90	32.40	
		60.00	-	80.70	1	1	20.70	-	-	1.20	0.90	22.35	
	Cross road (W0760) From 5th Cross to W0756- R/s	0.00	-	1.20	-	-	-	-	-	-	-	-	No Drain
		1.20	-	31.20	1	1	30.00	-	-	1.20	0.90	32.40	
		31.20	-	61.20	1	1	30.00	-	-	1.20	0.85	30.60	
		61.20	-	80.70	1	1	19.50	-	-	1.20	0.90	21.06	
	5th Cross (W0917) From W0762 to Deadend-L/s	0.00	-	30.00	1	1	30.00	-	-	1.20	0.90	32.40	
		30.00	-	60.00	1	1	30.00	-	-	1.20	0.85	30.60	
		60.00	-	85.00	1	1	25.00	-	-	1.20	0.90	27.00	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	30.00	1	1	30.00	-	-	1.20	0.90	32.40	
		30.00	-	60.00	1	1	30.00	-	-	1.20	0.90	32.40	
		60.00	-	85.00	1	1	25.00	-	-	1.20	0.90	27.00	
	EWE for Kerb												
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	25.00	1	1	25.00	-	-	0.20	0.10	0.50	
		25.00	-	31.00	-	-	-	-	-	-	-	-	Cross Road
		31.00	-	61.00	1	1	30.00	-	-	0.20	0.10	0.60	
		61.00	-	85.00	1	1	24.00	-	-	0.20	0.10	0.48	
		85.00	-	93.50	-	-	-	-	-	-	-	-	Cross Road
		93.50	-	120.00	1	1	26.50	-	-	0.20	0.10	0.53	
		120.00	-	125.40	-	-	-	-	-	-	-	-	Cross Road
		125.40	-	155.40	1	1	30.00	-	-	0.20	0.10	0.60	
		155.40	-	172.00	1	1	16.60	-	-	0.20	0.10	0.33	
	5th Cross From W0762 to W0756-R/s	0.00	-	26.00	1	1	26.00	-	-	0.20	0.10	0.52	
		26.00	-	33.70	1	1	7.70	-	-	0.20	0.10	0.15	
		33.70	-	63.70	1	1	30.00	-	-	0.20	0.10	0.60	
		63.70	-	68.70	1	1	5.00	-	-	0.20	0.10	0.10	
		68.70	-	87.70	-	-	-	-	-	-	-	-	No Drain
		87.70	-	92.70	-	-	-	-	-	-	-	-	Cross Road
		92.70	-	111.70	1	1	19.00	-	-	0.20	0.10	0.38	
	5th Cross From W0762 to W0756-L/s	63.70	-	93.70	1	1	30.00	-	-	0.20	0.10	0.60	
		93.70	-	111.70	1	1	18.00	-	-	0.20	0.10	0.36	
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	30.00	1	1	30.00	-	-	0.20	0.10	0.60	
		30.00	-	60.00	1	1	30.00	-	-	0.20	0.10	0.60	
		60.00	-	80.70	1	1	20.70	-	-	0.20	0.10	0.41	
	Cross road (W0760) From 5th Cross to W0756- R/s	0.00	-	1.20	-	-	-	-	-	-	-	-	No Drain
		1.20	-	31.20	1	1	30.00	-	-	0.20	0.10	0.60	
		31.20	-	61.20	1	1	30.00	-	-	0.20	0.10	0.60	
		61.20	-	80.70	1	1	19.50	-	-	0.20	0.10	0.39	
	5th Cross (W0917) From W0762 to Deadend-L/s	0.00	-	30.00	1	1	30.00	-	-	0.20	0.10	0.60	

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s		Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
		30.00	-	60.00	1	1	30.00	-	-	0.20	0.10	0.60	
		60.00	-	85.00	1	1	25.00	-	-	0.20	0.10	0.50	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	30.00	1	1	30.00	-	-	0.20	0.10	0.60	
		30.00	-	60.00	1	1	30.00	-	-	0.20	0.10	0.60	
		60.00	-	85.00	1	1	25.00	-	-	0.20	0.10	0.50	
	Only Desilting							-	-				
	4th Cross (W0915) From W0762 to Deadend-L/s	0.00	-	30.00	1	1	30.00	-	-	0.45	0.40	5.40	
		30.00	-	60.00	1	1	30.00	-	-	0.45	0.40	5.40	
		60.00	-	78.00	1	1	18.00	-	-	0.45	0.40	3.24	
	4th Cross (W0915) From W0762 to Deadend-R/s	0.00	-	30.00	1	1	30.00	-	-	0.45	0.40	5.40	
		30.00	-	60.00	1	1	30.00	-	-	0.45	0.40	5.40	
		60.00	-	78.00	1	1	18.00	-	-	0.45	0.40	3.24	
	6th cross (W0762) From 5th Cross to Deadend-L/s	0.00	-	7.00	1	1	7.00	-	-	0.60	0.60	2.52	
	E.W.E for CC Culvert												
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	6.00	1	1	6.00	-	-	1.50	0.90	8.10	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	8.90	1	1	8.90	-	-	1.80	0.90	14.81	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	5.60	1	1	5.60	-	-	1.50	0.90	7.56	
	E.W.E for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4				1.80	5.02	
											Total Qty.	**750.47**	**Cum**
											Qty. Ltd. to/ Payable Qty	**728.21**	**Cum**

K:SCCC(SD) 22/5/21

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

22.5.21

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Measurement Continued

4	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications												
	Bed Concrete for CC Drain												
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	25.00	1	1	25.00	-	-	1.20	0.15	4.50	
		25.00	-	31.00	-	-	-	-	-	-	-	-	Cross Road
		31.00	-	61.00	1	1	30.00	-	-	1.20	0.15	5.40	
		61.00	-	85.00	1	1	24.00	-	-	1.20	0.15	4.32	
		85.00	-	93.50	-	-	-	-	-	-	-	-	Cross Road
		93.50	-	120.00	1	1	26.50	-	-	1.20	0.15	4.77	
		120.00	-	125.40	-	-	-	-	-	-	-	-	Cross Road
		125.40	-	155.40	1	1	30.00	-	-	1.20	0.15	5.40	
		155.40	-	172.00	1	1	16.60	-	-	1.20	0.15	2.98	
	5th Cross From W0762 to W0756-R/s	0.00	-	26.00	1	1	26.00	-	-	1.50	0.15	5.85	
		26.00	-	33.70	1	1	7.70	-	-	1.20	0.15	1.38	
		33.70	-	63.70	1	1	30.00	-	-	1.20	0.15	5.40	
		63.70	-	68.70	1	1	5.00	-	-	1.20	0.15	0.90	
		68.70	-	87.70	-	-	-	-	-	-	-	-	No Drain
		87.70	-	92.70	-	-	-	-	-	-	-	-	Cross Road
		92.70	-	111.70	1	1	19.00	-	-	1.20	0.15	3.42	
	5th Cross From W0762 to W0756-L/s	63.70	-	93.70	1	1	30.00	-	-	1.20	0.15	5.40	
		93.70	-	111.70	1	1	18.00	-	-	1.20	0.15	3.24	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	30.00	1	30.00	-	-	1.20	0.15	5.40	
		30.00	-	60.00	1	30.00	-	-	1.20	0.15	5.40	
		60.00	-	80.70	1	20.70	-	-	1.20	0.15	3.72	
	Cross road (W0760) From 5th Cross to W0756- R/s	0.00	-	1.20	-	-	-	-	-	-	-	No Drain
		1.20	-	31.20	1	30.00	-	-	1.20	0.15	5.40	
		31.20	-	61.20	1	30.00	-	-	1.20	0.15	5.40	
		61.20	-	80.70	1	19.50	-	-	1.20	0.15	3.51	
	5th Cross (W0917) From W0762 to Deadend-L/s	0.00	-	30.00	1	30.00	-	-	1.20	0.15	5.40	
		30.00	-	60.00	1	30.00	-	-	1.20	0.15	5.40	
		60.00	-	85.00	1	25.00	-	-	1.20	0.15	4.50	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	30.00	1	30.00	-	-	1.20	0.15	5.40	
		30.00	-	60.00	1	30.00	-	-	1.20	0.15	5.40	
		60.00	-	85.00	1	25.00	-	-	1.20	0.15	4.50	
	Bed for Kerbs											
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	25.00	1	25.00	-	-	0.20	0.10	0.50	
		25.00	-	31.00	-	-	-	-	-	-	-	Cross Road
		31.00	-	61.00	1	30.00	-	-	0.20	0.15	0.90	
		61.00	-	85.00	1	24.00	-	-	0.20	0.15	0.72	
		85.00	-	93.50	-	-	-	-	-	-	-	Cross Road
		93.50	-	120.00	1	26.50	-	-	0.20	0.10	0.53	
		120.00	-	125.40	-	-	-	-	-	-	-	Cross Road
		125.40	-	155.40	1	30.00	-	-	0.20	0.15	0.90	
		155.40	-	172.00	1	16.60	-	-	0.20	0.10	0.33	
	5th Cross From W0762 to W0756-R/s	0.00	-	26.00	1	26.00	-	-	0.20	0.10	0.52	
		26.00	-	33.70	1	7.70	-	-	0.20	0.10	0.15	
		33.70	-	63.70	1	30.00	-	-	0.20	0.10	0.60	
		63.70	-	68.70	1	5.00	-	-	0.20	0.10	0.10	
		68.70	-	87.70	-	-	-	-	-	-	-	No Drain
		87.70	-	92.70	-	-	-	-	-	-	-	Cross Road
		92.70	-	111.70	1	19.00	-	-	0.20	0.10	0.38	
	5th Cross From W0762 to W0756-L/s	63.70	-	93.70	1	30.00	-	-	0.20	0.10	0.60	
		93.70	-	111.70	1	18.00	-	-	0.20	0.10	0.36	
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	30.00	1	30.00	-	-	0.20	0.10	0.60	
		30.00	-	60.00	1	30.00	-	-	0.20	0.10	0.60	
		60.00	-	80.70	1	20.70	-	-	0.20	0.10	0.41	
	Cross road (W0760) From 5th Cross to W0756- R/s	0.00	-	1.20	-	-	-	-	-	-	-	No Drain
		1.20	-	31.20	1	30.00	-	-	0.20	0.10	0.60	
		31.20	-	61.20	1	30.00	-	-	0.20	0.10	0.60	
		61.20	-	80.70	1	19.50	-	-	0.20	0.10	0.39	
	5th Cross (W0917) From W0762 to Deadend-L/s	0.00	-	30.00	1	30.00	-	-	0.20	0.10	0.60	
		30.00	-	60.00	1	30.00	-	-	0.20	0.10	0.60	
		60.00	-	85.00	1	25.00	-	-	0.20	0.10	0.50	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	30.00	1	30.00	-	-	0.20	0.10	0.60	
		30.00	-	60.00	1	30.00	-	-	0.20	0.10	0.60	
		60.00	-	85.00	1	25.00	-	-	0.20	0.10	0.50	
	Raft Concrete for CC Culvert											

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s		Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	6.00	1	1	6.00	-	-	1.50	0.20	1.80	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	8.90	1	1	8.90	-	-	1.80	0.20	3.20	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	5.60	1	1	5.60	-	-	1.50	0.20	1.68	
											Total Qty./ Payable Qty	132.26	Cum

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP 23.5.21

6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3, TMT bars Fe 500.

Steel Calculation Sheet is Enclosed

13.53

	~~24.34~~	Tonnes
Total Qty/ Payable Qty	~~24.34~~	Tonnes
	13.53	

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP 31.5.21

5 Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. i) Upto 5 m height.

Raft Concrete for CC Drain											
6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00 -	25.00	1	1	25.00	-	-	1.00	0.15	3.75	
	25.00 -	31.00	-	-	-	-	-	-	-	-	Cross Road
	31.00 -	61.00	1	1	30.00	-	-	1.00	0.15	4.50	
	61.00 -	85.00	1	1	24.00	-	-	1.00	0.15	3.60	
	85.00 -	93.50	-	-	-	-	-	1.00	0.15		Cross Road
	93.50 -	120.00	1	1	26.50	-	-	1.00	0.15	3.97	
	120.00 -	125.40	-	-	-	-	-	-	-	-	Cross Road
	125.40 -	155.40	1	1	30.00	-	-	1.00	0.15	4.50	
	155.40 -	172.00	1	1	16.60	-	-	1.00	0.15	2.49	
5th Cross From W0762 to W0756-R/s	0.00 -	26.00	1	1	26.00	-	-	1.30	0.15	5.07	
	26.00 -	33.70	1	1	7.70	-	-	1.00	0.15	1.15	
	33.70 -	63.70	1	1	30.00	-	-	1.00	0.15	4.50	
	63.70 -	68.70	1	1	5.00	-	-	1.00	0.15	0.75	
	68.70 -	87.70	-	-	-	-	-	-	-	-	No Drain
	87.70 -	92.70	-	-	-	-	-	-	-	-	Cross Road
	92.70 -	111.70	1	1	19.00	-	-	1.00	0.15	2.85	
5th Cross From W0762 to W0756-L/s	63.70 -	93.70	1	1	30.00	-	-	1.00	0.15	4.50	
	93.70 -	111.70	1	1	18.00	-	-	1.00	0.15	2.70	
Cross road (W0760) From 5th Cross to W0756- L/s	0.00 -	30.00	1	1	30.00	-	-	1.00	0.15	4.50	
	30.00 -	60.00	1	1	30.00	-	-	1.00	0.15	4.50	
	60.00 -	80.70	1	1	20.70	-	-	1.00	0.15	3.10	
Cross road (W0760) From 5th Cross to W0756- R/s	0.00 -	1.20	-	-	-	-	-	-	-	-	No Drain
	1.20 -	31.20	1	1	30.00	-	-	1.00	0.15	4.50	
	31.20 -	61.20	1	1	30.00	-	-	1.00	0.15	4.50	
	61.20 -	80.70	1	1	19.50	-	-	1.00	0.15	2.92	
5th Cross (W0917) From W0762 to Deadend-L/s	0.00 -	30.00	1	1	30.00	-	-	1.00	0.15	4.50	
	30.00 -	60.00	1	1	30.00	-	-	1.00	0.15	4.50	

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Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
		60.00	-	85.00	1 1	25.00	-	-	1.00	0.15	3.75	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	30.00	1 1	30.00	-	-	1.00	0.15	4.50	
		30.00	-	60.00	1 1	30.00	-	-	1.00	0.15	4.50	
		60.00	-	85.00	1 1	25.00	-	-	1.00	0.15	3.75	
	Raft Concrete for CC Culvert						-	-				
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	6.00	1 1	6.00	-	-	1.40	0.15	1.26	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	8.90	1 1	8.90	-	-	1.70	0.15	2.26	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	5.60	1 1	5.60	-	-	1.40	0.15	1.17	
										Total Qty-1	98.54	Cum

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Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

Measurement Continued

5	Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates											
	Sidewall Concrete for CC Drains											
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	25.00	1	2	25.00	-	-	0.15	0.60	4.50	
		25.00	-	31.00	-	-	-	-	-	-	-	-	Cross Road
		31.00	-	61.00	1	2	30.00	-	-	0.15	0.60	5.40	
		61.00	-	85.00	1	2	24.00	-	-	0.15	0.60	4.32	
		85.00	-	93.50	-	-	-	-	-	-	-	-	Cross Road
		93.50	-	120.00	1	2	26.50	-	-	0.15	0.60	4.77	
		120.00	-	125.40	-	-	-	-	-	-	-	-	Cross Road
		125.40	-	155.40	1	2	30.00	-	-	0.15	0.60	5.40	
		155.40	-	172.00	1	2	16.60	-	-	0.15	0.60	2.98	
	5th Cross From W0762 to W0756-R/s	0.00	-	26.00	1	2	26.00	-	-	0.15	0.75	5.85	
		26.00	-	33.70	1	2	7.70	-	-	0.15	0.60	1.38	
		33.70	-	63.70	1	2	30.00	-	-	0.15	0.60	5.40	
		63.70	-	68.70	1	2	5.00	-	-	0.15	0.60	0.90	
		68.70	-	87.70	-	-	-	-	-	-	-	-	No Drain
		87.70	-	92.70	-	-	-	-	-	-	-	-	Cross Road
		92.70	-	111.70	1	2	19.00	-	-	0.15	0.60	3.42	
	5th Cross From W0762 to W0756-L/s	63.70	-	93.70	1	2	30.00	-	-	0.15	0.60	5.40	
		93.70	-	111.70	1	2	18.00	-	-	0.15	0.60	3.24	
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	30.00	1	2	30.00	-	-	0.15	0.60	5.40	
		30.00	-	60.00	1	2	30.00	-	-	0.15	0.60	5.40	
		60.00	-	80.70	1	2	20.70	-	-	0.15	0.60	3.72	
	Cross road (W0760) From 5th Cross to W0756- R/s	0.00	-	1.20	-	-	-	-	-	-	-	-	No Drain
		1.20	-	31.20	1	2	30.00	-	-	0.15	0.60	5.40	
		31.20	-	61.20	1	2	30.00	-	-	0.15	0.60	5.40	
		61.20	-	80.70	1	2	19.50	-	-	0.15	0.60	3.51	
	5th Cross (W0917) From W0762 to Deadend-L/s	0.00	-	30.00	1	2	30.00	-	-	0.15	0.60	5.40	
		30.00	-	60.00	1	2	30.00	-	-	0.15	0.60	5.40	
		60.00	-	85.00	1	2	25.00	-	-	0.15	0.60	4.50	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	30.00	1	2	30.00	-	-	0.15	0.60	5.40	
		30.00	-	60.00	1	2	30.00	-	-	0.15	0.60	5.40	

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Sl. No.	Description of work	Chainage From	-	To	Measurements No.s		Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
	Sidewall Concrete for Culverts	60.00	-	85.00	1	2	25.00	-	-	0.15	0.60	4.50	
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	6.00	1	2	6.00	-	-	0.25	0.60	1.80	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	8.90	1	2	8.90	-	-	0.30	0.75	4.00	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	5.60	1	2	5.60	-	-	0.25	0.60	1.68	
	Deck Slab												
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	6.00	1	1	6.00	-	-	1.20	0.25	1.80	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	8.90	1	1	8.90	-	-	1.50	0.25	3.33	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	5.60	1	1	5.60	-	-	1.20	0.25	1.68	
	Total Qty. Raft Concrete Qty. Vide Item No.4										**Total Qty-2**	126.68	Cum
	Sidewall Concrete Qty. Vide Item No.4											98.54	
												126.68	
											Total Qty/ Payable Qty.	225.22	Cum

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

7	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges , curing and concrtee finished surface on both sides etc, and complete as per the directions of Enginner in charges.												
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	25.00	1	1	25.00	-	-	0.90	-	22.50	
		25.00	-	31.00	-	-	-	-	-	-	-		Cross Road
		31.00	-	61.00	1	1	30.00	-	-	0.90	-	27.00	
		61.00	-	85.00	1	1	24	-	-	0.9	-	21.60	
		85.00	-	93.50	-	-	-	-	-	-	-		Cross Road
		93.50	-	120.00	1	1	26.50	-	-	0.90	-	23.85	
		120.00	-	125.40	-	-	-	-	-	-	-		Cross Road
		125.40	-	155.40	1	1	30.00	-	-	0.90	-	27.00	
		155.40	-	172.00	1	1	16.60	-	-	0.90	-	14.94	
	6th cross (W0762) From 5th Cross to Deadend-L/s	0.00	-	7.00	1	1	7.00	-	-	1.20	-	8.40	
	5th Cross From W0762 to W0756-R/s	0.00	-	26.00	1	1	26.00	-	-	1.20	-	31.20	
		26.00	-	33.70	1	1	7.70	-	-	0.90	-	6.93	
		33.70	-	63.70	1	1	30.00	-	-	0.90	-	27.00	
		63.70	-	68.70	1	1	5.00	-	-	0.90	-	4.50	
		68.70	-	87.70	-	-	-	-	-	-	-		No Drain
		87.70	-	92.70	-	-	-	-	-	-	-		Cross Road
		92.70	-	111.70	1	1	19.00	-	-	0.90	-	17.10	
	5th Cross From W0762 to W0756-L/s	63.70	-	93.70	1	1	30.00	-	-	0.90	-	27.00	
		93.70	-	111.70	1	1	18.00	-	-	0.90	-	16.20	
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	30.00	1	1	30.00	-	-	0.90	-	27.00	
		30.00	-	60.00	1	1	30.00	-	-	0.90	-	27.00	
		60.00	-	80.70	1	1	20.70	-	-	0.90	-	18.63	
	Cross road (W0760) From 5th Cross to W0756- R/s	0.00	-	1.20	-	-	-	-	-	-	-		No Drain
		1.20	-	31.20	1	1	30.00	-	-	0.90	-	27.00	
		31.20	-	61.20	1	1	30.00	-	-	0.90	-	27.00	
		61.20	-	80.70	1	1	19.50	-	-	0.90	-	17.55	

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
	5th Cross (W0917) From W0762 to Deadend-L/s	0.00	-	30.00	1 1	30.00	-	-	0.90	-	27.00	
		30.00	-	60.00	1 1	30.00	-	-	0.90	-	27.00	
		60.00	-	85.00	1 1	25.00	-	-	0.90	-	22.50	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	30.00	1 1	30.00	-	-	0.90	-	27.00	
		30.00	-	60.00	1 1	30.00	-	-	0.90	-	27.00	
		60.00	-	85.00	1 1	25.00	-	-	0.90	-	22.50	
	Missing Slabs						-	-		-	0.00	
	4th Cross (W0915) From W0762 to Deadend-L/s	0.00	-	78.00	78	0.60	-	-	0.90	-	42.12	
	4th Cross (W0915) From W0762 to Deadend-R/s	0.00	-	78.00	88	0.60	-	-	0.90	-	47.52	
										Total Qty.	662.04	
	Deduction for Granite Slabs											
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	125.40	-	133.00	1 1	7.60	-	-	0.90	-	6.84	
	5th Cross From W0762 to W0756-L/s	56.00	-	63.90	1 1	7.90	-	-	0.90	-	7.11	
	5th Cross From W0762 to W0756-R/s	62.70	-	68.70	1 1	6.00	-	-	0.90	-	5.40	
										Total Deducted Qty.	19.35	
										Total Qty. / Payable Qty.	642.69	Sqm

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
8	Dismantling of Concrete Pavement by Mechanical means using pneumatic tools, breaking to pieces not exceeding0.02cum in volume and stack piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specificatios											
	6th Cross (W0762) From 1st Cross to 5th Cross	0.00	-	30.00	1 1	30.00	5.00	3.50	4.25	0.10	12.75	
		30.00	-	60.00	1 1	30.00	3.50	4.00	3.75	0.10	11.25	
		60.00	-	90.00	1 1	30.00	4.00	3.50	3.75	0.10	11.25	
		90.00	-	120.00	1 1	30.00	3.50	4.40	3.95	0.10	11.85	
		120.00	-	150.00	1 1	30.00	4.40	2.80	3.60	0.10	10.80	
		150.00	-	178.10	1 1	28.10	2.80	4.30	3.55	0.10	9.97	
		178.10	-	185.60	1 1	7.50	6.00	4.30	5.15	0.10	3.86	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	8.90	1 1	8.90	7.60	6.90	7.25	0.10	6.45	
		8.90	-	20.10	1 1	11.20	6.90	4.30	5.60	0.10	6.27	
		20.10	-	29.90	1 1	9.80	4.80	4.90	4.85	0.10	4.75	
	5th Cross From W0762 to W0756	0.00	-	26.00	1 1	26.00	9.00	5.30	7.15	0.10	18.59	
		26.00	-	33.70	1 1	7.70	8.50	7.40	7.95	0.10	6.12	
		33.70	-	63.70	1 1	30.00	7.40	4.90	6.15	0.10	18.45	
		63.70	-	93.70	1 1	30.00	4.90	4.50	4.70	0.10	14.10	
		93.70	-	112.00	1 1	18.30	4.50	5.40	4.95	0.10	9.05	
	Cross road (W0760) From 5th Cross to W0756	0.00	-	30.00	1 1	30.00	3.10	3.70	3.40	0.10	10.20	
		30.00	-	60.00	1 1	30.00	3.70	3.80	3.75	0.10	11.25	
		60.00	-	82.00	1 1	22.00	3.80	3.70	3.75	0.10	8.25	
	Cross road (Curve Road) from W0760 to 5th Cross	0.00	-	17.20	1 1	17.20	8.50	4.70	6.60	0.10	11.35	
		17.20	-	43.20	1 1	26.00	4.70	5.60	5.15	0.10	13.39	
		43.20	-	73.20	1 1	30.00	5.60	4.80	5.20	0.10	15.60	
		73.20	-	85.40	1 1	12.20	4.80	5.50	5.15	0.10	6.28	
		85.40	-	90.40	1 1	5.00	7.60	7.50	7.55	0.10	3.77	

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
										Total Qty	235.60	Cum
										Qty. Ltd. to / Payable Qty	194.12	Cum

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

9 Scarifying kankar / gravel / metal crust by mechanical means upto 150mm thick, disposal of stuff including cost of all labour charges, HOM complete as per specifications. All lead and lift complete as per specification

6th Cross (W0762) From 1st Cross to 5th Cross	0.00 -	30.00	1	1	30.00	5.00	3.50	4.25	127.50
	30.00 -	60.00	1	1	30.00	3.50	4.00	3.75	112.50
	60.00 -	90.00	1	1	30.00	4.00	3.50	3.75	112.50
	90.00 -	120.00	1	1	30.00	3.50	4.40	3.95	118.50
	120.00 -	150.00	1	1	30.00	4.40	2.80	3.60	108.00
	150.00 -	178.10	1	1	28.10	2.80	4.30	3.55	99.75
	178.10 -	185.60	1	1	7.50	6.00	4.30	5.15	38.62
6th cross (W0762) From 5th Cross to Deadend	0.00 -	8.90	1	1	8.90	7.60	6.90	7.25	64.52
	8.90 -	20.10	1	1	11.20	6.90	4.30	5.60	62.72
	20.10 -	29.90	1	1	9.80	4.80	4.90	4.85	47.53
5th Cross From W0762 to W0756	0.00 -	26.00	1	1	26.00	9.00	5.30	7.15	185.90
	26.00 -	33.70	1	1	7.70	8.50	7.40	7.95	61.21
	33.70 -	63.70	1	1	30.00	7.40	4.90	6.15	184.50
	63.70 -	93.70	1	1	30.00	4.90	4.50	4.70	141.00
	93.70 -	112.00	1	1	18.30	4.50	5.40	4.95	90.58
Cross road (W0760) From 5th Cross to W0756	0.00 -	30.00	1	1	30.00	3.10	3.70	3.40	902.00
	30.00 -	60.00	1	1	30.00	3.70	3.80	3.75	112.50
	60.00 -	82.00	1	1	22.00	3.80	3.70	3.75	82.50
Cross road (Curve Road) from W0760 to 5th Cross	0.00 -	17.20	1	1	17.20	8.50	4.70	6.60	113.52
	17.20 -	43.20	1	1	26.00	4.70	5.60	5.15	133.90
	43.20 -	73.20	1	1	30.00	5.60	4.80	5.20	156.00
	73.20 -	85.40	1	1	12.20	4.80	5.50	5.15	62.83
	85.40 -	90.40	1	1	5.00	7.60	7.50	7.55	37.75
								Total Qty	2356.33 Sqm
								Qty. Ltd. to / Payable Qty	1941.20 Sqm

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

10 Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. All lead and lift complete as per specification

6th Cross (W0762) From 1st Cross to 5th Cross	0.00 -	30.00	1	1	30.00	5.00	3.50	4.25	127.50
	30.00 -	60.00	1	1	30.00	3.50	4.00	3.75	112.50
	60.00 -	90.00	1	1	30.00	4.00	3.50	3.75	112.50
	90.00 -	120.00	1	1	30.00	3.50	4.40	3.95	118.50
	120.00 -	150.00	1	1	30.00	4.40	2.80	3.60	108.00
	150.00 -	178.10	1	1	28.10	2.80	4.30	3.55	99.75
	178.10 -	185.60	1	1	7.50	6.00	4.30	5.15	38.62
6th cross (W0762) From 5th Cross to Deadend	0.00 -	8.90	1	1	8.90	7.60	6.90	7.25	64.52
	8.90 -	20.10	1	1	11.20	6.90	4.30	5.60	62.72

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Sl. No.	Description of work	Chainage From	Chainage To	No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
	5th Cross From W0762 to W0756	20.10	29.90	1	9.80	4.80	4.90	4.85		47.53	
		0.00	26.00	1	26.00	9.00	5.30	7.15		185.90	
		26.00	33.70	1	7.70	8.50	7.40	7.95		61.21	
		33.70	63.70	1	30.00	7.40	4.90	6.15		184.50	
		63.70	93.70	1	30.00	4.90	4.50	4.70		141.00	
	Cross road (W0760) From 5th Cross to W0756	93.70	112.00	1	18.30	4.50	5.40	4.95		90.58	
		0.00	30.00	1	30.00	3.10	3.70	3.40		102.00	
		30.00	60.00	1	30.00	3.70	3.80	3.75		112.50	
		60.00	82.00	1	22.00	3.80	3.70	3.75		82.50	
	Cross road (Curve Road) from W0760 to 5th Cross	0.00	17.20	1	17.20	8.50	4.70	6.60		113.52	
		17.20	43.20	1	26.00	4.70	5.60	5.15		133.90	
		43.20	73.20	1	30.00	5.60	4.80	5.20		156.00	
		73.20	85.40	1	12.20	4.80	5.50	5.15		62.83	
		85.40	90.40	1	5.00	7.60	7.50	7.55		37.75	
									Total Qty	2356.33	Sqm
									Qty. Ltd. to / Payable Qty	1941.20	Sqm

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP 27-5-21

12 Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per WMM for CC road

	6th Cross (W0762) From 1st Cross to 5th Cross	0.00	30.00	1	1	30.00	5.00	3.50	4.25	0.10	12.75
		30.00	60.00	1	1	30.00	3.50	4.00	3.75	0.10	11.25
		60.00	90.00	1	1	30.00	4.00	3.50	3.75	0.10	11.25
		90.00	120.00	1	1	30.00	3.50	4.40	3.95	0.10	11.85
		120.00	150.00	1	1	30.00	4.40	2.80	3.60	0.10	10.80
		150.00	178.10	1	1	28.10	2.80	4.30	3.55	0.10	9.97
		178.10	185.60	1	1	7.50	6.00	4.30	5.15	0.10	3.86
	6th cross (W0762) From 5th Cross to Deadend	0.00	8.90	1	1	8.90	7.60	6.90	7.25	0.10	6.45
		8.90	20.10	1	1	11.20	6.90	4.30	5.60	0.10	6.27
		20.10	29.90	1	1	9.80	4.80	4.90	4.85	0.10	4.75
	5th Cross From W0762 to W0756	0.00	26.00	1	1	26.00	9.00	5.30	7.15	0.10	18.59
		26.00	33.70	1	1	7.70	8.50	7.40	7.95	0.10	6.12
		33.70	63.70	1	1	30.00	7.40	4.90	6.15	0.10	18.45
		63.70	93.70	1	1	30.00	4.90	4.50	4.70	0.10	14.10
		93.70	112.00	1	1	18.30	4.50	5.40	4.95	0.10	9.05
	Cross road (W0760) From 5th Cross to W0756	0.00	30.00	1	1	30.00	3.10	3.70	3.40	0.10	10.20
		30.00	60.00	1	1	30.00	3.70	3.80	3.75	0.10	11.25
		60.00	82.00	1	1	22.00	3.80	3.70	3.75	0.10	8.25
	Cross road (Curve Road) from W0760 to 5th Cross	0.00	17.20	1	1	17.20	8.50	4.70	6.60	0.10	11.35
		17.20	43.20	1	1	26.00	4.70	5.60	5.15	0.10	13.39
		43.20	73.20	1	1	30.00	5.60	4.80	5.20	0.10	15.60
		73.20	85.40	1	1	12.20	4.80	5.50	5.15	0.10	6.28
		85.40	90.40	1	1	5.00	7.60	7.50	7.55	0.10	3.77
										Total Qty	235.60 Cum

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Sl. No.	Description of work	Chainage From	-	To	No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
										Qty. Ltd. to / Payable Qty	194.12	Cum

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP 30.5.21

11 Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver.

6th Cross (W0762) From 1st Cross to 5th Cross	0.00 - 30.00	1	1	30.00	5.00	3.50	4.25	0.10	12.75	
	30.00 - 60.00	1	1	30.00	3.50	4.00	3.75	0.10	11.25	
	60.00 - 90.00	1	1	30.00	4.00	3.50	3.75	0.10	11.25	
	90.00 - 120.00	1	1	30.00	3.50	4.40	3.95	0.10	11.85	
	120.00 - 150.00	1	1	30.00	4.40	2.80	3.60	0.10	10.80	
	150.00 - 178.10	1	1	28.10	2.80	4.30	3.55	0.10	9.97	
	178.10 - 185.60	1	1	7.50	6.00	4.30	5.15	0.10	3.86	
6th cross (W0762) From 5th Cross to Deadend	0.00 - 8.90	1	1	8.90	7.60	6.90	7.25	0.10	6.45	
	8.90 - 20.10	1	1	11.20	6.90	4.30	5.60	0.10	6.27	
5th Cross From W0762 to W0756	20.10 - 29.90	1	1	9.80	4.80	4.90	4.85	0.10	4.75	
	0.00 - 26.00	1	1	26.00	9.00	5.30	7.15	0.10	18.59	
	26.00 - 33.70	1	1	7.70	8.50	7.40	7.95	0.10	6.12	
	33.70 - 63.70	1	1	30.00	7.40	4.90	6.15	0.10	18.45	
	63.70 - 93.70	1	1	30.00	4.90	4.50	4.70	0.10	14.10	
	93.70 - 112.00	1	1	18.30	4.50	5.40	4.95	0.10	9.05	
Cross road (W0760) From 5th Cross to W0756	0.00 - 30.00	1	1	30.00	3.10	3.70	3.40	0.10	10.20	
	30.00 - 60.00	1	1	30.00	3.70	3.80	3.75	0.10	11.25	
	60.00 - 82.00	1	1	22.00	3.80	3.70	3.75	0.10	8.25	
Cross road (Curve Road) from W0760 to 5th Cross	0.00 - 17.20	1	1	17.20	8.50	4.70	6.60	0.10	11.35	
	17.20 - 43.20	1	1	26.00	4.70	5.60	5.15	0.10	13.39	
	43.20 - 73.20	1	1	30.00	5.60	4.80	5.20	0.10	15.60	
	73.20 - 85.40	1	1	12.20	4.80	5.50	5.15	0.10	6.28	
	85.40 - 90.40	1	1	5.00	7.60	7.50	7.55	0.10	3.77	
								Total Qty	235.60	Cum
								Qty. Ltd. to / Payable Qty	194.12	Cum

E.E. (D.D.)

E.E. (D.D.)

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP 2.6.21

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to18:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades,textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.											
	6th Cross (W0762) From 1st Cross to 5th Cross	0.00	-	30.00	1	1	30.00	5.00	3.50	4.25	0.15	19.12	
		30.00	-	60.00	1	1	30.00	3.50	4.00	3.75	0.15	16.87	
		60.00	-	90.00	1	1	30.00	4.00	3.50	3.75	0.15	16.87	
		90.00	-	120.00	1	1	30.00	3.50	4.40	3.95	0.15	17.77	
		120.00	-	150.00	1	1	30.00	4.40	2.80	3.60	0.15	16.20	
		150.00	-	178.10	1	1	28.10	2.80	4.30	3.55	0.15	14.96	
		178.10	-	185.60	1	1	7.50	6.00	4.30	5.15	0.15	5.79	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	8.90	1	1	8.90	7.60	6.90	7.25	0.125	8.06	
		8.90	-	20.10	1	1	11.20	6.90	4.30	5.60	0.125	7.84	
		20.10	-	29.90	1	1	9.80	4.80	4.90	4.85	0.125	5.94	
	5th Cross From W0762 to W0756	0.00	-	26.00	1	1	26.00	9.00	5.30	7.15	0.125	23.23	
		26.00	-	33.70	1	1	7.70	8.50	7.40	7.95	0.125	7.69	
		33.70	-	63.70	1	1	30.00	7.40	4.90	6.15	0.125	23.06	
		63.70	-	93.70	1	1	30.00	4.90	4.50	4.70	0.125	17.62	
		93.70	-	112.00	1	1	18.30	4.50	5.40	4.95	0.125	11.32	
	Cross road (W0760) From 5th Cross to W0756	0.00	-	30.00	1	1	30.00	3.10	3.70	3.40	0.125	12.75	
		30.00	-	60.00	1	1	30.00	3.70	3.80	3.75	0.125	14.06	
		60.00	-	82.00	1	1	22.00	3.80	3.70	3.75	0.125	10.31	
	Cross road (Curve Road) from W0760 to 5th Cross	0.00	-	17.20	1	1	17.20	8.50	4.70	6.60	0.125	14.19	
		17.20	-	43.20	1	1	26.00	4.70	5.60	5.15	0.125	16.73	
		43.20	-	73.20	1	1	30.00	5.60	4.80	5.20	0.125	19.50	
		73.20	-	85.40	1	1	12.20	4.80	5.50	5.15	0.125	7.85	
		85.40	-	90.40	1	1	5.00	7.60	7.50	7.55	0.125	4.71	
	Gully road	0.00	-	2.90	1	1	2.90	1.80	-	1.80	0.10	0.52	
		2.90	-	9.00	1	1	6.10	1.00	-	1.00	0.10	0.61	
											Total Qty	313.53	Cum
											Qty. Ltd. to / Payable Qty	310.59	Cum

E.E. (D.D.)

Executed on 16/12/21 ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ ಶಿವಾಜಿನಗರ, ಬೆಂಗಳೂರು

Executed on 16/12/21

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

14	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.										
	Kerbs										
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	172.00	310	152.10	-	-	-	-	310
	6th cross (W0762) From 5th Cross to Deadend-L/s	0.00	-	7.00	15	7.00	-	-	-	-	15
	5th Cross From W0762 to W0756-R/s	0.00	-	111.70	185	87.70	-	-	-	-	185
	5th Cross From W0762 to W0756-L/s	63.70	-	111.70	101	48.00	-	-	-	-	101

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	80.70	170	80.70	-	-	-	-	170	
	Cross road (W0760) From 5th Cross to W0756- R/s	0.00	-	80.70	167	79.50	-	-	-	-	167	No Drain
	5th Cross (W0917) From W0762 to Deadend-L/s	0.00	-	85.00	179	85.00	-	-	-	-	179	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	85.00	179	85.00	-	-	-	-	179	
	4th Cross (W0915) From W0762 to Deadend-L/s	0.00	-	78.00	164	78.00	-	-	-	-	164	
	4th Cross (W0915) From W0762 to Deadend-R/s	0.00	-	78.00	164	78.00	-	-	-	-	164	
										Total Qty.	1634	No.s
										Qty. Ltd. to / Payable Qty	1591	Nos
15	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications											
	Total No. of Kerbs Vide Item No.15		-	-	1634	0.45	-	-	0.35		257.35	
										Total Qty.	257.35	Sqm
										Qty. Ltd. to / Payable Qty	250.60	Sqm

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

16	Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications											
	Same as Qty. Vide Item No.3	-	-	-	-	-	-	-	-	-	728.21	
										Total Payable Qty. in this Bill	728.21	Cum
17	Loading and Unloading of Stone Boulder / Stone aggregate / Sand Kanker / Moorum.KSRRB M100-1 : Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.											
	Same as Qty. Vide Item No.1	-	-	-	-	-	-	-	-	-	160.23	
	Same as Qty. Vide Item No.8	-	-	-	-	-	-	-	-	-	194.12	
	Same as Qty. Vide Item No.9	-	-	-	-	-	-	2356.33	0.150		353.44	
										Total Qty.	707.79	Cum
										Qty Ltd. To /Total Payable Qty. in this Bill	646.40	Cum
18	Cost of haulage Excluding Loading and Unloading MORTH-100/Chapter 1 case-I surface road											
	Same as Qty. Vide Item No.16	-	-	-	-	-	-	-	-	-	728.21	
	Same as Qty. Vide Item No.17	-	-	-	-	-	-	-	-	-	646.40	
										Total Payable Qty. in this Bill	1374.61	Cum

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

19	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.											
	a) 40mm Jelly.	-	-	-	-	-	-	-	-	-		
	for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4		0.40		1.11	
										Total Qty / Payable Qty	1.11	Cum
	b) 20mm Jelly.											
	for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4		0.40		1.11	
										Total Qty / Payable Qty	1.11	Cum
	c) Coarse sand.											
	for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4		0.30		0.83	
										Total Qty / Payable Qty	0.83	Cum
	d) Fine Sand											
	for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4		0.20		0.55	

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
										Total Qty / Payable Qty	0.55	Cum
	e) 12 5mm chips for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4			0.30	0.83	
										Total Qty / Payable Qty	0.83	Cum

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20	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit)												
	for RWH	-	-	-	1	9	1.80	-	-	-	-	16.20	
											Total Qty / Payable Qty	16.20	Rmtrs
21	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.												
	for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4					2.79	
											Total Qty / Payable Qty	2.79	Sqm

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Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
6	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500											

	No.of bars	Length of Bar				Unit Weight	Total Kgs
10mm Dia Main bars							
6th Cross (W0762) From 1st Cross to 5th Cross-L/s	167	2.10	-	-	@	0.62	217.43
	360	2.10	-	-	@	0.62	468.72
	177	2.10	-	-	@	0.62	230.45
5th Cross From W0762 to W0756-R/s	311	2.10	-	-	@	0.62	404.92
	173	3.00	-	-	@	0.62	321.78
	285	2.10	-	-	@	0.62	371.07
5th Cross From W0762 to W0756-L/s	127	2.10	-	-	@	0.62	165.35
Cross road (W0760) From 5th Cross to W0756- L/s	320	2.10	-	-	@	0.62	416.64
Cross road (W0760) From 5th Cross to W0756- R/s	538	2.10	-	-	@	0.62	700.47
5th Cross (W0917) From W0762 to Deadend-L/s	530	2.10	-	-	@	0.62	690.06
5th Cross (W0917) From W0762 to Deadend-R/s	567	2.10	-	-	@	0.62	738.23
	567	2.10	-	-	@	0.62	738.23
10mm Dia Distribution bars							
6th Cross (W0762) From 1st Cross to 5th Cross-L/s	14	25.00	-	-	@	0.62	217.00
	14	54.00	-	-	@	0.62	468.72
	14	26.50	-	-	@	0.62	230.02
	14	46.60	-	-	@	0.62	404.48
5th Cross From W0762 to W0756-R/s	20	26.00	-	-	@	0.62	322.40
	14	42.70	-	-	@	0.62	370.63
	14	19.00	-	-	@	0.62	164.92
5th Cross From W0762 to W0756-L/s	14	48.00	-	-	@	0.62	416.64
Cross road (W0760) From 5th Cross to W0756- L/s	14	80.70	-	-	@	0.62	700.47
Cross road (W0760) From 5th Cross to W0756- R/s	14	79.50	-	-	@	0.62	690.06
5th Cross (W0917) From W0762 to Deadend-L/s	14	85.00	-	-	@	0.62	737.80
5th Cross (W0917) From W0762 to Deadend-R/s	14	85.00	-	-	@	0.62	737.80
For Culvert							
12mm dia U shape bars (Double Layer)							
6th Cross (W0762) From 1st Cross to 5th Cross-L/s	120	4.80	-	-	@	0.89	512.64
7th Cross (W0762) From 1st Cross to 5th Cross-L/s	178	6.00	-	-	@	0.89	950.52
8th Cross (W0762) From 1st Cross to 5th Cross-L/s	112	4.80	-	-	@	0.89	478.46
10mm dia Distribution bars (Double Layer)							
6th Cross (W0762) From 1st Cross to 5th Cross-L/s	32	6.00	-	-	@	0.62	119.04
7th Cross (W0762) From 1st Cross to 5th Cross-L/s	40	8.90	-	-	@	0.62	220.72
8th Cross (W0762) From 1st Cross to 5th Cross-L/s	32	5.60	-	-	@	0.62	111.10
For Culvert-Deck Slab							
6th Cross (W0762) From 1st Cross to 5th Cross-L/s			-	-			
16mm dia Cranked Bars	21	1.45	-	-	@	1.58	48.11
16mm dia Un Cranked Bars	20	1.15	-	-	@	1.58	36.34
10mm dia Distribution bars (Top & Bottom)	16	6.00	-	-	@	0.62	59.52
7th Cross (W0762) From 1st Cross to 5th Cross-L/s			-	-			0.00

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
	16mm dia Cranked Bars				31	1.45	-	-	a	1.58	71.02	
	16mm dia Un Cranked Bars				30	1.15	-	-	a	1.58	54.51	
	10mm dia Distribution bars (Top & Bottom)				20	6.00	-	-	a	0.62	74.40	
	8th Cross (W0762) From 1st Cross to 5th Cross-L/s						-	-			0.00	
	16mm dia Cranked Bars				20	1.45	-	-	a	1.58	45.82	
	16mm dia Un Cranked Bars				19	1.15	-	-	a	1.58	34.52	
	10mm dia Distribution bars (Top & Bottom)				16	5.60	-	-	a	0.62	55.55	
										Total Qty	13796.56	Kgs
										Converting Kgs into Tonnes		
										Total Qty	13.79	Tonnes
										Qty Ltd. to / Payable Qty	13.53	Tonnes

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